PATENT COOPERATION TREATPORTO 10 JAN 2005
PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70 REC'L 30 JUL 2004

WIPO PCT

Applicant's or agent's file reference FES/PF4879/WO	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/EP 03/07615	International filing date (day/month 11.07.2003	
International Patent Classification (IPC) or bot A61K31/445 Applicant	h national classification and IPC	
GLAXO GROUP LIMITED et al.		
This international preliminary examinated to the amount of the amou	nation report has been prepared pplicant according to Article 36.	d by this International Preliminary Examining
2. This REPORT consists of a total of		
This report is also accompanie been amended and are the ba (see Rule 70.16 and Section 6	d by ANNEXES, i.e. sheets of t sis for this report and/or sheets of 07 of the Administrative Instruct	he description, claims and/or drawings which have containing rectifications made before this Authority lions under the PCT).
These annexes consist of a total of		
This report contains indications relations.	ng to the following items:	
I ⊠ Basis of the opinion		
II ☐ Priority III ☒ Non-establishment of onic		
IV Lack of unity of invention	iion with regard to novelty, invei	ntive step and industrial applicability
V 🖾 Reasoned statement under	er Rule 66.2(a)(ii) with regard to	novelty, inventive step or industrial applicability;
· · · · ·	supporting such statement	novery, inventive step of industrial applicability;
- Contain docaments cited		
. — - VIII —	national application e international application	
Date of submission of the demand		
and or appringsion of the demand	Date of com	pletion of this report
27.01.2004	29.07.200	4
Name and mailing address of the international preliminary examining authority:	Authorized O	Officer
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 ep Fax: +49 89 2399 - 4465		0. +49 89 2399-7078

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/07615

I.	Basis	of	the	repo	rt
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Description, Pages					
	1	-42	as originally filed			
	C	laims, Numbers				
	1	-14	as originally filed			
2	2. W la	ith regard to the lang nguage in which the i	juage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.			
			vailable or furnished to this Authority in the following language: , which is:			
		the language of a t	ranslation furnished for the purposes of the international search (under Rule 23.1(b)).			
		the language of pu	blication of the international application (under Rule 48.3(b)).			
		the language of a to Rule 55.2 and/or 55	ranslation furnished for the purposes of interpolicy at the state of t			
3	 With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: 					
	☐ contained in the international application in written form.					
	filed together with the international application in computer readable form.					
☐ furnished subsequently to this Authority in written form.						
			ntly to this Authority in computer readable form.			
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
			the information recorded in computer read-black and the second se			
4. The amendments have resulted in the cancellation of:						
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			
5.						
			eet containing such amendments must be referred to under item 1 and annexed to this			
6.	Add	itional observations, i	f necessary:			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

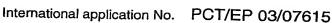
PCT/EP 03/07615

Ш	. No	n-establishment of opinion v	vith re	gard to nov	elty, inventive step and industrial applicability		
1.	The obv	e questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- vious), or to be industrially applicable have not been examined in respect of:					
		the entire international applic	the entire international application,				
	\boxtimes	claims Nos. 1-14 (part)					
		because:					
		the said international applicat not require an international pr	ion, or elimin	the said clai ary examinal	ms Nos. relate to the following subject matter which does tion (specify):		
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
		the claims, or said claims Noscould be formed.	s. are s	so inadequat	ely supported by the description that no meaningful opinion		
	\boxtimes	no international search report	has b	een establish	ned for the said claims Nos. 1-14 (part)		
2.	ora	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/ or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:					
		the written form has not been	furnisł	ned or does i	not comply with the Standard.		
		the computer readable form h	as not	been furnish	ed or does not comply with the Standard.		
V.	Rea citat	soned statement under Artic tions and explanations supp	le 35(orting	2) with rega such stater	rd to novelty, inventive step or industrial applicability;		
1.	State	ement					
	Nov	elty (N)	Yes: No:	Claims Claims	1-14 (part)		
	Inve	ntive step (IS)	Yes: No:	Claims Claims	1-14 (part)		
	Indu	strial applicability (IA)	Yes:	Claims	1-14 (part)		

No: Claims

2. Citations and explanations

see separate sheet



EXAMINATION REPORT - SEPARATE SHEET

Item V

Only part of the claims in respect of which an International Search Report has been established will be examined i.e. part of the application relating to compounds of formula (I) wherein Ar1 is (i): phenyl, naphtyl, or phenyl fused by a C_{3-8} cycloalkyl (Rule 66.1(e) PCT).

2 Prior art

Reference is made to the following documents:

D1: WO 2002 055497 A D2: WO 01 06261 A D3: US-A-5 767 131

D4: J. MED. CHEM. 1985, vol. 28, no. 6, p. 815-818

The priority document pertaining to the present application was not available at the time of establishing this international preliminary examination report. Hence, it is based on the assumption that all claims enjoy priority rights from the filing date of the priority document. If it later turns out that this is not correct, the P-document D1 cited in the international search report could become relevant to assess whether the claims satisfy the criteria set forth in Article 33(1) PCT.

3 Novelty (Article 33(2) PCT)

> The compounds of the present application are novel over D2-D4 in view of the R1 substituent on the Ar1.

4 Inventive step (Article 33(3) PCT

The Applicant appears to have set himself the task of making available further compounds useful for treating conditions resulting from elevated levels of LDLcholesterol.

D2 and D3 which represent the closest prior art disclose closely related piperidine derivatives i.e. 1-arylpiperidines attached to an aryl group or heterocyclic group via a linking chain containing an amide linker. In addition said compounds of D2 and D3



rational application No.

International application No. PCT/EP 03/07615

provide a solution to the above mentioned technical problem (see D2, claim 1 and D3 claim 15). Therefore, in the absence of any unexpected effect established by comparative tests or other appropriate information the present compounds are considered obvious vis a vis D2-D3.

Form PCT/Separate Sheet/409 (Sheet 2) (EPO-April 1997)